

BMP-2 active protein

Human BMP-2

CATALOG # AAA79170	HOST E Coli	REACTIVITY Human
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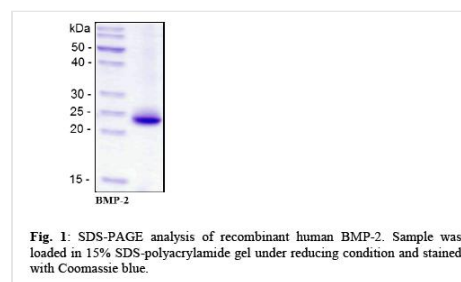
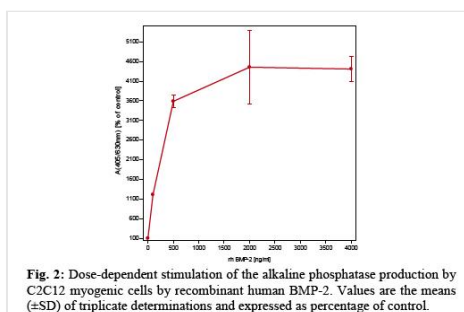
PRODUCT SYNONYMS

BMP-2; Human BMP-2; Recombinant Human Bone Morphogenetic Protein-2; BMP-2A; Bone morphogenetic protein 2A; BMP-2 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Reactivity	Human
Purity/Purification	> 95% by SDS-PAGE & silver stain
Form/Format	Lyophilized
Sequence	MQAKHKQRKR LKSSCKRHPL YVDFSDVGWN DWIVAPPGYH AFYCHGECPP PLADHLNSTN HAIVQTLVNS VNSKIPKACC VPTELSAISM LYLDENEKVV LKNYQDMVVE GCGCR
Sequence Length	115
Endotoxin Level	< 0.1ng per ug of BMP-2
Biological Activity	Measured by the ability of BMP-2 to induce alkaline phosphatase production by C2C12 myogenic cells. The ED50 for this effect is typically 0.3-0.8 ug/ml.
Reconstitution	The lyophilized BMP-2 is best soluble in 50 mM acetic acid at a concentration of 0.1mg/ml but should be also soluble in most aqueous buffers when the pH is below 6.0.
Preparation and Storage	Lyophilized samples are stable for greater than six months at -20 degree C to -70 degree C. Reconstituted BMP-2 should be stored in working aliquots at -20 degree C. Avoid repeated freeze-thaw cycles!

IMAGES



Application Data

Application Data

ADDITIONAL INFORMATION

Related Product Information for BMP-2 active protein

Human Bone Morphogenetic Protein-2 (BMP-2) is a disulfide-bonded homodimeric protein with an apparent molecular weight of 26 kDa. BMP-2 regulates similarly to its nearest homologue BMP-4 diverse fundamental processes during embryonic development: BMP-2 and other BMP proteins have great potential for medical therapeutic applications, in particular because they allow or at least accelerate the ossification of extensive bone lesions. The amino acid sequence of recombinant human BMP-2 starts with MQAKHKQ (position 283) containing the Met from the E. coli expression vector. BMP-2 is a heparin binding protein.

Product Categories/Family for BMP-2 active protein	Cytokines & Growth Factors
References	1. Wozney et al., Science 242:1528, 1988 2. Ruppert et al., Eur J Biochem 237:295, 1996

NCBI AND UNIPROT INFORMATION

NCBI GI #	4557369
NCBI GeneID	650
NCBI Accession #	NP_001191.1
NCBI GenBank Nucleotide #	NM_001200.2
UniProt Accession #	P12643
Molecular Weight	26.0 kDa
NCBI Official Full Name	bone morphogenetic protein 2 preproprotein
NCBI Official Synonym Full Names	bone morphogenetic protein 2
NCBI Official Symbol	BMP2
NCBI Official Synonym Symbols	BDA2; BMP2A
NCBI Protein Information	bone morphogenetic protein 2; BMP-2A; bone morphogenetic protein 2A
UniProt Protein Name	Bone morphogenetic protein 2
UniProt Gene Name	BMP2
UniProt Synonym Gene Names	BMP2A; BMP-2; BMP-2A
UniProt Entry Name	BMP2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.